

PRESS RELEASE 1

AMADA EG-6013 AR bending cell

An all-rounder in the world of bending thanks to automatic robotic systems

Based on its many years of experience of automated bending with the ASTRO series, AMADA has developed a new bending cell. The EG-6013 AR is equipped with an extremely flexible automatic robotic system and innovative sensor systems in the backgauge.

High-precision servoelectric press brakes demonstrate their productivity benefits particularly well when they are used in combination with a bending cell that possesses an equally efficient automation system. The AMADA EG-6013 AR follows this well established principle. It comprises a fully electric press brake with a press beam length of 1,300 mm and a press force of 600 kN in conjunction with a robot that moves along a ground travel path parallel to the machine and a high-capacity automatic tool changer. Together, these system components provide two particularly crucial advantages, namely outstanding precision and long unattended production runs in automatic mode.

More than just loading and unloading

The automatic robotic system used in the EG-6013 AR is particularly versatile. The 6-axis robot moves along a ground travel path in front of the press brake. Loading can be performed from different positions. This means that there is considerable capacity for raw materials. At the same time, several alternative unloading options are also available. The completed workpieces are stacked by the robot or, if this is not possible, placed in boxes or on a synchronized conveyor belt. But the robot does much more than just load and unload: It changes both the bending tools and its grippers itself and performs workpiece handling throughout the entire bending process across all the tool stations. It likewise performs all tracking movements and also carries out process steps that cannot be achieved if the machine is operated manually. For example, the mechanical grippers can also be guided around the tools in the press's working area in order to ensure optimum assistance during operation tracking.

New, innovative sensor systems

The backgauge of the AMADA EG-6013 AR is equipped with tactile sensors. These are innovative in their ability to detect the position of the workpiece in both the X and Y directions prior to bending and initiate corrective measures if departures from tolerances are identified. This system makes a further contribution to ensuring the maximum precision that is typically demanded for the small, complex parts that are manufactured in bending cells of this size.

approx. 2,500 characters

Illustration



More than just loading and unloading: The automatic robotic system within the AMADA EG-6013 AR bending cell performs a wide range of tasks.

Photo credit: AMADA GmbH

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About AMADA GmbH

The AMADA Group is one of the world's leading manufacturers of sheet metal working machines. AMADA GmbH offers a comprehensive range of cutting, bending, punching and laser technologies. The portfolio is complemented by modular automation components, software applications and a wide range of tools. In addition, AMADA offers its customers a wide variety of additional services. The AMADA Group was founded in 1946 in Japan by Isamu Amada. The German subsidiary AMADA GmbH has been operating since 1973.